

TASK ORDER NO. 1
under
DOE/RFO - USGS/NRP INTERAGENCY AGREEMENT
DE-AI34-91RF00012

Title: Determination of Colloidal and Solution-Phase Transport
of Americium and Plutonium in groundwater at Rocky Flats

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Statement of Work

- A.) The USGS/WRD research activities will be: (1) determination of chemical characteristics and mineralogy of colloidal material in surface and ground water samples, as related to the affinity of colloidal material for sorption of americium and plutonium; (2) determination of distribution of americium and plutonium between solution and colloidal distribution of americium and plutonium between solution and colloidal phases of varying sizes; (3) determination of variation along a groundwater flow path in the distribution of americium and plutonium between solution and colloidal phases; and (4) interpretation of the results of phase characterization in regards to the behavior of americium and plutonium during groundwater transport and remediation.

The task is to be done in two phases as described in the attached proposal.

- B.) Work will be done as per the Interagency Agreement.

USGS will provide collected information in an electronic format compatible with the Rocky Flats Environmental Database System (RFEDS). USGS will contact Bill Ewan, EG&G (966-2068) for appropriate format.